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         SEP 09
                 ACD predicted properties enhanced in REGISTRY/ZREGISTRY
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         OCT 04
                 CA/CAplus-Canadian Intellectual Property Office (CIPO) added
     9
                 to core patent offices
        OCT 06
NEWS 10
                 STN AnaVist workshops to be held in North America
NEWS 11
         OCT 13
                 New CAS Information Use Policies Effective October 17, 2005
NEWS 12
         OCT 17
                 STN(R) AnaVist(TM), Version 1.01, allows the export/download
                 of CAplus documents for use in third-party analysis and
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=> Uploading C:\Program Files\Stnexp\Queries\10698255s.str

chain nodes : 7 8 9 10 11 22 29 30 31 32 33 34 35 36 39 37 ring nodes : 1 2 3 4 5 6 12 13 14 15 16 17 18 19 20 21 23 24 25 26 27 28 chain bonds : 1-11 4-7 7-8 7-9 7-10 9-32 10-36 11-12 11-13 15-31 20-22 22-23 22-30 26-29 32-33 32-34 32-35 36-37 36-38 36-39 ring bonds : 1-2 1-6 2-3 3-4 4-5 5-6 12-18 12-21 13-14 13-17 14-15 15-16 16-17 18-19 19-20 20-21 23-24 23-28 24-25 25-26 26-27 27-28 exact/norm bonds : 7-8 7-9 7-10 9-32 10-36 12-18 12-21 13-14 13-17 14-15 15-16 16-17 18-19 19-20 20-21 22-30 exact bonds : 1-11 4-7 11-12 11-13 15-31 20-22 22-23 26-29 32-33 32-34 32-35 36-37 36-38 36-39 normalized bonds : 1-2 1-6 2-3 3-4 4-5 5-6 23-24 23-28 24-25 25-26 26-27 27-28

## Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS 11:CLASS 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:CLASS 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom 29:CLASS 30:CLASS 31:CLASS 32:CLASS 33:CLASS 34:CLASS 35:CLASS 36:CLASS 37:CLASS 38:CLASS 39:CLASS

=> d L1 HAS NO ANSWERS L1 STR

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

Structure attributes must be viewed using STN Express query preparation.

=> s 11

SAMPLE SEARCH INITIATED 15:31:42 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 2 TO ITERATE

100.0% PROCESSED

2 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*
BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: PROJECTED ANSWERS:

2 TO 124

0 TO 0

L2

0 SEA SSS SAM L1

=> s l1 full

FULL SEARCH INITIATED 15:31:45 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 36 TO ITERATE

100.0% PROCESSED 36 ITERATIONS

1 ANSWERS

SEARCH TIME: 00.00.01

L3 1 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS
SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST
161.33
161.54

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=> s 13

L4 2 L3

=> d ibib abs hitstr tot

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS ON STN ACCESSION NUMBER: 2005:394876 CAPLUS DOCUMENT NUMBER: 142:46857 Synthesis of phosphono-substituted porphyrin

for attachment to metal oxide surfaces Lindsey, Jonathan S.; Loewe, Robert S.; Muthukumaran, Kannan; Ambroise, Arounaguiry INVENTOR (S):

USA
U.S. Pat. Appl. Publ., 29 pp.
CODEN: USXXCO
Patent
English PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE US 2005096465 PRIORITY APPLN. INFO.: 20050505 Al US 2003-698255 US 2003-698255 20031031 20031031

GI

A method is described for making phosphono-substituted dipyrromethane derivs. comprising reacting an aldehyde or acetal having at least one phosphono group with pyrrole to produce a phosphono-substituted dipyrromethane. The phosphono substitutent is selected from the group consisting of dialkyl phosphono, diaryl phosphono, and dialkylaryl phosphono. The dipyrromethane is used to prepare phosphono-substituted chlorina and porphyrins which can potentially be attached to metal oxide surfaces. Thus, zinc 5-{4-{phosphonomethyl}phenyl}-10,15,20-

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN ACCESSION NUMBER: 2003:965574 CAPLUS DOCUMENT NUMBER: 140:156138

TITLE:

AUTHOR (S):

140:136139
Porphyrins Bearing Arylphosphonic Acid Tethers for
Attachment to Oxide Surfaces
Muthukumaran, Kannan: Loewe, Robert S.: Ambroise,
Arounaguiry: Tamaru, Shunichi; Li, Qiliang: Mathur,
Guru: Bocian, David F.: Misra, Veene: Lindsey,
Jonathan; Jonathan;

Acousticist, lamatu, smulicis, L., Villang, methur, Guru; Bocian, David F.: Misra, Veena; Lindsey, Jonathan S. Departments of Chemistry and Electrical and Computer Engineering, North Carolina State University,

CORPORATE SOURCE: Raleigh.

SOURCE:

NC, 27695-8204, USA Journal of Organic Chemistry (2004), 69(5), 1444-1452 CODEN: JOCEAH: ISSN: 0022-3263 American Chemical Society Journal

PUBLISHER:

DOCUMENT TYPE: LANGUAGE:

AGG: English English Synthetic mols. bearing phosphonic acid groups can be readily attached to oxide surfaces. As part of a program in mol.-based information storage, the authors have developed routes for the synthesis of diverse

onlde surfaces. As part of a program in mol.-osset intormation storage, the surhors have developed routes for the synthesis of diverse porphyrinic compds. bearing phenylphosphonic acid groups in precursors for use in the rational synthesis of porphyrinic compds. and (2) derivatization of porphyrins with masked phosphonic acid groups. The precursors include dipyrromethanes, monoacyldipyrromethanes, and diacyldipyrromethanes. The tert-Bu group was used to mask the dihydroxyphosphoryl substituent. The di-tert-butyloxyphosphoryl unit is stable to the range of conditions employed in syntheses of porphyrins and multiporphyrin arrays yet can be deprotected under mild conditions (TMS-c1/TEA or TMS-B-TFAE in refluxing CHC13) that do not cause demetalation of Zn or Mg porphyrins. The porphyrinic compds. that were prepared include (1) A3B-, trans-A3BC-porphyrins that bear a single phenylphosphonic acid group, (2) a trans-A2BC-porphyrin bearing two phenylphosphonic acid groups, (3) a chlorin that bears a single phenylphosphonic acid group, and (4) a porphyrin dynd bearing a single phenylphosphonic acid group, for selected porphyrin-phosphonic acids, the electrochem. characteristics were studied porphyrin-phosphonic acids, the electrochem.

orted porphyrin-phosphonic acids, the electrochem. characteristics were studied for mols. tethered to SiO2 surfaces grown on doped Si. The voltammetric behavior indicates that the porphyrin-phosphonic acids form robust, elec. well-behaved monolayers on the oxide surface.

651302-30-6

solsuz-su-6
RL: RCT (Reactant): RACT (Reactant or reagent)
(reactant for preparation of magnesium/zinc complexes with porphyrins having

INDEX

NAME)

ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN (Continued) trimesity|porphyrin (I) was prepd. Addnl. methods, intermediates and products are also described.
651302-30-659

INDEX NAME)

ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

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=> file req COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 10.33 171.87 DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL ENTRY SESSION CA SUBSCRIBER PRICE -1.46-1.46

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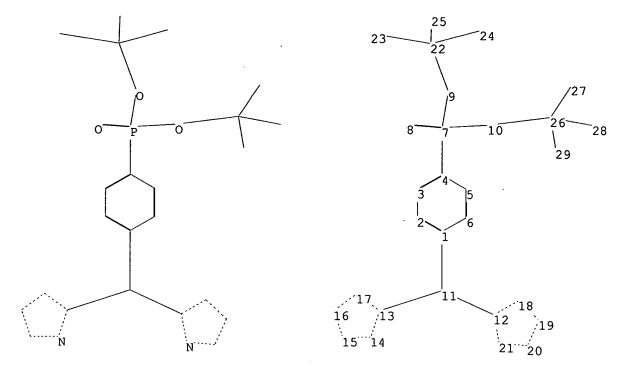
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chain nodes : 7 8 9 10 11 22 23 24 25 26 27 ring nodes : 1 2 3 4 5 6 12 13 14 15 16 17 18 19 20 21 chain bonds : 1-11 4-7 7-8 7-9 7-10 9-22 10-26 11-12 11-13 22-23 22-24 22-25 26-27 26-28 26-29 ring bonds : 1-2 1-6 2-3 3-4 4-5 5-6 12-18 12-21 13-14 13-17 14-15 15-16 16-17 18-19 19-20 20-21 exact/norm bonds : 7-8 7-9 7-10 9-22 10-26 12-18 12-21 13-14 13-17 14-15 15-16 16-17 18-19 19-20 20-21 exact bonds : 1-11 4-7 11-12 11-13 22-23 22-24 22-25 26-27 26-28 26-29 normalized bonds : 1-2 · 1-6 2-3 3-4 4-5 5-6

## Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS 11:CLASS 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS 29:CLASS

## L5 STRUCTURE UPLOADED

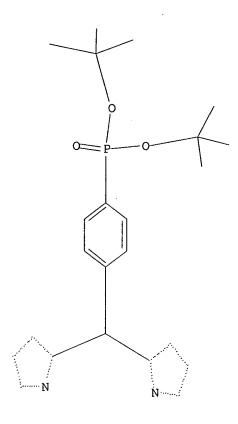
=> dd

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=> dL5 HAS NO ANSWERS L5 STR



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=> s 15

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100.0% PROCESSED

2 ITERATIONS

1 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE

\*\*COMPLETE\*\*

BATCH

\*\*COMPLETE\*\* 2 TO 124

PROJECTED ITERATIONS:

PROJECTED ANSWERS:

80

1 TO

1 SEA SSS SAM L5

=> s 15 full

FULL SEARCH INITIATED 15:33:03 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED -28 TO ITERATE

100.0% PROCESSED

28 ITERATIONS

4 ANSWERS

SEARCH TIME: 00.00.01

=> file caplus COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION

FULL ESTIMATED COST

161.76 333.63

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE TOTAL ENTRY SESSION

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=> s 17

L8 2 L7

=> d ibib abs hitstr tot

L8 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2005:394876 CAPLUS
DOCUMENT NUMBER: 142:440857
TITLE: Synthesis of phosphono-substituted porphyrin

INVENTOR (S):

for attachment to metal oxide surfaces Lindsey, Jonathan S.; Loewe, Robert S.; Muthukumaran, Kannan; Ambroise, Arounaguiry USA U.S. Pat. Appl. Publ., 29 pp. CODEN: USXXCO

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: Patent English

APPLICATION NO. PATENT NO. KIND DATE DATE US 2005096465 PRIORITY APPLN. INFO.: 20050505 US 2003-698255 US 2003-698255 Al

A method is described for making phosphono-substituted dipyrromethane derivs. comprising reacting an aldehyde or acetal having at least one phosphono group with pyrrole to produce a phosphono-substituted dipyrromethane. The phosphono substituent is selected from the group consisting of dialkyl phosphono, diaryl phosphono, and dialkylaryl phosphono. The dipyrromethane is used to prepare phosphono-substituted chlorins and porphyrins which can potentially be attached to metal oxide surfaces. Thus, zinc 5-{4-(phosphonomethyl)phenyl}-10,15,20-

ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

IT 651302-30-6F
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of phosphono-substituted porphyrin compds.)
RN 651302-30-6 CAPLUS
CN Phosphonic acid, [4-(5-bromo-lH-pyrro1-2-yl)[5-(4-methylbenzoyl)-lH-pyrro1-2-yl)methyl]phenyl]-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX

NAME)

ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN (Continued) trimeaitylporphyrin (I) was prepd. Addnl. methods, intermediates and products are also described.
651301-78-97 651301-89-09 551301-88-19
RL: RCT (Reactant): SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of phosphono-substituted porphyrin compds.)
651301-78-9 CAPLUS
Phosphonic acid, [4-(di-1H-pyrrol-2-ylmethyl)phenyl]-,
bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

651301~87-0 CAPLUS

Phosphonic acid, [4-[[5-(4-methylbenzoyl)-1H-pyrrol-2-yl]-1H-pyrrol-2-ylmethyl]phenyl]-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

RN 651301-88-1 CAPLUS
CN Phosphonic acid,
[4-[14-pyrrol-2-y1]5-[4-[(trimethylsily1)ethynyl]benzoyl]1H-pyrrol-2-yl]methyl]phenyl]-, bis(1,1-dimethylethyl) ester (9CI) (CA
INDEX NAME)

L8 ANSWER 2 OF 2
ACCESSION NUMBER: 2003:965574 CAPLUS
DOCUMENT NUMBER: 140:156138
TITLE: Porphyrins Bearing Arylphosphonic Acid Tethers for Attachment to Oxide Surfaces
AUTHOR(S): Muthukmaran, Kennan: Loewe, Robert S.; Ambroise, Arounaguiry; Tamaru, Shunichi; L1, Qiliang; Mathur, Guru; Bocian, David F.; Misra, Veena; Lindsey, Jonathan S.

CORPORATE SOURCE: Departments of Chemistry and Electrical and Computer Engineering, North Carolina State University,

Raleigh,

SOURCE:

PUBLISHER:

igh,

NC, 27695-8204, USA
CE: Journal of Organic Chemistry (2004), 69(5), 1444-1452
CODEN: JOCEAN! ISSN: 0022-3263
ISHER: American Chemical Society
Journal
UAGE: English
Synthetic mols. bearing phosphonic acid groups can be readily attached to oxide surfaces. As part of a program in mol.-based information storage, the authors have developed routes for the synthesis of diverse hyrinic

oxide surfaces. As part of a program in mol.-based information storage, the authors have developed routes for the synthesis of diverse porphyrinic compds. bearing phenylphosphonic acid tethers. The routes enable (1) incorporation of masked phosphonic acid groups in precursors for use in the rational synthesis of porphyrinic compds. and (2) derivatization of porphyrins with masked phosphonic acid groups. The precursors include dipyrromethanes, monoacyldipyrromethanes, and diacyldipyrromethanes. The tett-Bu group was used to mask the dhydroxyphosphoryl substituent. The di-tert-butyloxyphosphoryl unit is stable to the range of conditions employed in syntheses of porphyrins and multiporphyrin arrays yet can be deprotected under mild conditions (TMS-Cl/TEA or TMS-Br/TEA in refluxing CKCl3) that do not cause demetalation of 2n or Mg porphyrins. The porphyrinic compds. that were prepared include (1) A3B-, trans-AB2C-, and ABCD-porphyrins that bear a single phenylphosphonic acid group, (2) a trans-AB22-porphyrin bearing single phenylphosphonic acid group, and (4) a porphyrin dyab bearing a single phenylphosphonic acid group, and (4) a porphyrin-phosphonic acids, the electrochem. characteristics was accounted to porphyrin-phosphonic acids, the electrochem.

cted porphyrin-phosphonic acids, the electrochem. characteristics were studied for mols. tethered to SiO2 surfaces grown on doped Si. The voltammetric behavior indicates that the porphyrin-phosphonic acids form robust, elec. well-behaved monolayers on the oxide surface. 65:301-79-99 65:301-79-09 65:301-89-19

RE: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and reactant for preparation of zinc/magnesium complexes

with

porphyrins having arylphosphonic acid tethers)
651301-78-9 CAPLUS
Phosphonic acid, [4-(di-1H-pyrrol-2-ylmethyl)phenyl]-bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

· L8 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

651301-87-0 CAPLUS
Phosphonic acid, (4-[[5-(4-methylbenzoyl)-1H-pyrrol-2-yl]-1H-pyrrol-2-ylmethyl]phenyl]-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

IT

651302-30-6
RL: RCT (Reactant); RACT (Reactant or reagent)
[reactant for preparation of magnesium/zinc complexes with porphyrins

having

arylphosphonic acid tethers)

RN 651302-30-6 CAPLUS

CN Phosphonic acid, [4-([5-bromo-lH-pyrrol-2-yl) [5-(4-methylbenzoyl)-lH-pyrrol-2-yl)methylphenyl]-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX

ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN NAME) (Continued)

REFERENCE COUNT:

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FULL ESTIMATED COST	10.33	343.96
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE	ENTRY -1.46	SESSION -2.92

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